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Derwent Title: Encapsulation of an organic core containing an active material, with an outer layer of aluminum hydroxy carbonate - giving good protection and easy release on change of pH

Original Title: FR2774906A1: SYSTEME D'ENCAPSULATION A COEUR ORGANIQUE ET A ECORCE MINERALE A BASE D'HYDROXYCARBONATE D'ALUMINIUM ET SON PROCEDE DE PREPARATION

Assignée: RHODIA CHIM Standard company
Other publications from [RHODIA CHIM \(RHOD\)](#)

Inventor: DEPUIS D; DUPUIS D;

Accession/ Update: 1999-496128 / 200361

IPC Code: A61K 9/50 ; A61K 9/52 ;

Derwent Classes: A96; B07; C07; D21;

Manual Codes: A12-V01(Medicines, pharmaceuticals) , A12-V04 (Cosmetics, toilet requisites) , B03-L(Vitamins [general]) , B04-B01C3(Mineral oils and waxes) , B04-C03B(Other addition polymers [exc. poly n-vinyl lactams]) , B04-C03D (Natural, other condensation [exc. polyethers]) , B05-A01B(Group 1a, 2a, 3a metals and compounds [exc. K, B, Ra]) , B12-M11C(Capsule) , B14-B04B(Insecticide general and other) , C03-L(Vitamins [general]) , C04-B01C3(Mineral oils and waxes) , C04-C03B(Other addition polymer [exc. poly N-vinyl lactams]**) , C04-C03D (Natural, other condensation [exc. polyether]) , C05-A01B (Group 1a, 2a, 3a metals and compounds [exc. K, B, Ra]) , C12-M11C(Capsule) , C14-B04B(Insecticide general and other) , D08-B10(Carriers or bases for cosmetics)

Derwent Abstract: (FR2774906A) Novelty - A system for the encapsulation of an organic core, containing at least one active material with a mineral shell of aluminum hydroxy carbonate, the cohesion between these two being through a non-ionic surfactant (I) having a hydrophobic segment and a hydrophilic segment. Detailed Description - The surfactant (I) is preferably one of the following: polyalkoxylated fatty alcohols, polyoxyalkylated alkyl phenols, polyvinyl alcohols and alkyl ethers, and block copolymers. Preferably they are polyalkoxylated alcohols, tristyryl phenols, and block copolymers, especially those having a hydrophile/ lipophile balance above 6. The final products preferably contain 1 - 3% of surfactant, calculated on the weight of organic compounds. The active material may have cosmetic, pharmaceutical, or phytosanitary applications, and may be incorporated into the core material in its normal form or as an aqueous emulsion or dispersion, especially as an emulsion containing up to 70% water with the active material dissolved in a silicone oil. Such emulsions and dispersions also contain a surfactant, which may be anionic, nonionic, or amphoteric, or zwitterionic. The mineral shell containing aluminum hydroxy carbonate may further contain a metal oxide or a precursor of this, typically oxides and their precursors of Si, Ti, Zr, Zn, Mg, Yt, Ce, and their mixtures. The particles preferably have a size in the range 0.1 - 10 micro m. Use - The active materials may be used in the cosmetic, phytosanitary and pharmaceutical industries.

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Advantage - The aluminum hydroxy carbonate coating gives very good protection for the active material, together with good release of the active material through diffusion or dissolution, following a change of pH.

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Family:

PDF Patent Pub. Date Derwent Update Pages Language IPC Code

FR2774906A1 * 1999-08-20 199942 22 French A61K 9/52

Local appls.: FR1998000001781 Filed:1998-02-13 (98FR-0001781)

US6616947 = 2003-09-09 200361 8 English A61K 9/50

Local appls.: Based on WO9940902 (WO 9940902)
US2000000622209 Filed:2000-10-26 (2000US-0622209)
WO1999FR0000280 Filed:1999-02-09 (99WO-FR00280)

DE69900776E = 2002-02-28 200223 German A61K 9/50

Local appls.: Based on WO9940902 (WO 9940902)
Based on EP01052978 (EP 1052978)
EP1999000903727 Filed:1999-02-09 (99EP-0903727)
WO1999FR0000280 Filed:1999-02-09 (99WO-FR00280)
DE1999000600776 Filed:1999-02-09 (99DE-0600776)

EP1052978B1 = 2002-01-09 200211 16 French A61K 9/50

Des. States: (R) DE FR GB

Local appls.: Based on WO9940902 (WO 9940902)
WO1999FR0000280 Filed:1999-02-09 (99WO-FR00280)
EP1999000903727 Filed:1999-02-09 (99EP-0903727)

EP1052978A1 = 2000-11-22 200061 French A61K 9/50

Des. States: (R) DE FR GB

Local appls.: Based on WO9940902 (WO 9940902)
WO1999FR0000280 Filed:1999-02-09 (99WO-FR00280)
EP1999000903727 Filed:1999-02-09 (99EP-0903727)

AU9924285A = 1999-08-30 200003 English A61K 9/50

Local appls.: Based on WO9940902 (WO 9940902)
AU199900024285 Filed:1999-02-09 (99AU-0024285)

WO9940902A1 = 1999-08-19 199942 26 French A61K 9/50

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(R) AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC
MW NL OA PT SD SE SZ UG ZW

Local appls.: WO1999FR0000280 Filed:1999-02-09 (99WO-FR00280)

INPADOC None

Legal Status:

Priority Number:

Application Number	Filed	Original Title
<u>FR1998000001781</u>	1998-02-13	SYSTEME D'ENCAPSULATION A COEUR ORGANIQUE ET A ECORCE MINERALE A BASE D'HYDROXYCARBONATE D'ALUMINIUM ET SON PROCEDE DE PREPARATION

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 [Registry](#) 04[M2]:1677U
 [Numbers](#) 05[M2]:1495U

[Unlinked](#) 1495U 1677U
[Registry Numbers](#):

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[Accessions](#):

Accession Number	Type	Derwent Update	Derwent Title
C1999-145619	C		

1 item found

[Title Terms](#): ENCAPSULATE ORGANIC CORE CONTAIN ACTIVE MATERIAL OUTER LAYER ALUMINIUM HYDROXY CARBONATE PROTECT EASY RELEASE CHANGE PH

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